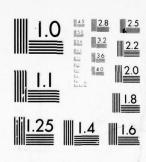


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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-4

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OCCUPATIONAL SURVEY REPORT.



WEAPONS MAINTENANCE SPECIALIST
CAREER LADDER
AFSC 46250

AFPT-90-462-222 28 OCT 77

(2)52p.

OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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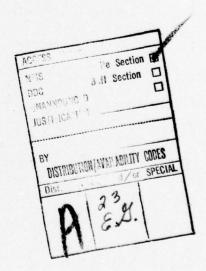
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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Weapons Maintenance Systems Specialty, AFSC 46250.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Frederick B. Bower, Jr. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Styvey Branch (OMY), Lack Land AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center

WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT WEAPONS MAINTENANCE SPECIALTY AFSC 46250

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Weapons Maintenance Specialty (AFSC 46250). The data for this report were collected during the period July through September 1977.

(This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 46250 airmen worldwide. Responses from 1,205 individuals represented 21 percent of the total of all AFSC 46250 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

| SEQUENCE OF SUBJECT AREAS | SUBJECT AREA TITLE | BEGINNING ITEM NUMBER | GPSUM PAGE NUMBER |
|------------------------------|---|-----------------------------|----------------------|
| 1 | MATHEMATICS | Al | 2 |
| | DIRECT CURRENT AND VOLTAGE | A15 | 2 |
| 2 3 | RESISTANCE | A24 | 2 2 |
| 4 | | B52 | 3 |
| 4 5 6 | MULTIMETER USES ALTERNATING CURRENT | B61 | 4 |
| 6 | INDUCTORS AND INDUCTIVE | B67 | |
| | REACTANCE | | 4 |
| 7 | CAPACITORS AND CAPACITIVE | C92 | |
| | REACTANCE | to day to the | 5 |
| 8 | TRANSFORMERS | C128 | 6 |
| 9 | MAGNETISM | C171 | 7 |
| 10 | RCL CIRCUITS | D185 | 8 |
| ii | SERIES AND PARALLEL RESONANCE | D229 | |
| Transaction and | (TIME CONSTANTS) | DELI | 10 |
| 12 | FILTERS | D239 | 10 |
| 13 | COUPLING | E261 | ii |
| 14 | SOLDERING | E273 | ii |
| 15 | RELAYS | E295 | 12 |
| 16 | MICROPHONES | F314 | 12 |
| 17 | SPEAKERS | F327 | 13 |
| 18 | OSCILLOSCOPES | F342 | 13 |
| 19 | SEMICONDUCTOR DIODES | G354 | 13 |
| 20 | SEMICONDUCTOR DIODES TRANSISTORS | G404 | 15 |
| 21 | TRANSISTOR AMPLIFIERS | G428 | 16 |
| 22 | SOLID-STATE SPECIAL PURPOSE | 4420 | 10 |
| | DEVICES | H477 | 19 |
| 23 | POWER SUPPLIES | H483 | 19 |
| 24 | OSCILLATORS | H512 | 19 |
| 25 | MULTIVIBRATORS | 1539 | 20 |
| 26 | I IMITERS AND CLAMPERS | 1555 | 21 |
| 27 | LIMITERS AND CLAMPERS ELECTRON TUBES | 1565 | 21 |
| 28 | ELECTRON TUBE AMPLIFIERS | J609 | 21 |
| 20 | AND CIRCUITS | 0003 | 22 |
| 29 | SPECIAL PURPOSE ELECTRON | J616 | 22 |
| 23 | TUBES | 0010 | 23 |
| 30 | HETERODYNING, MODULATION, AND | J632 | 23 |
| 30 | DEMODULATION | 0032 | 23 |
| 31 | AM SYSTEMS | V620 | |
| | | K638 | 23 |
| 32 | FM SYSTEMS | K666 | 24 |

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

| SEQUENCE OF SUBJECT AREAS | SUBJECT AREA TITLE | BEGINNING ITEM NUMBER | GPSUM PAGE NUMBER |
|------------------------------|------------------------------|-----------------------------|----------------------|
| 2.10466 | | | |
| 33 | NUMBERING SYSTEMS | K685 | 25 |
| 34 | LOGIC FUNCTIONS | L695 | 25 |
| 35 | BOOLEAN EQUATIONS | L708 | 26 |
| 36 | COUNTERS | L733 | 27 |
| 37 | TIMING CIRCUITS | M757 | 27 |
| 38 | USE OF SIGNAL GENERATORS | M769 | 28 |
| 39 | MOTORS AND GENERATORS | M779 | 28 |
| 40 | METER MOVEMENTS | N808 | 29 |
| 41 | SATURABLE REACTORS AND | N818 | |
| | MAGNETIC AMPLIFIERS | | 29 |
| 42 | WAVESHAPING CIRCUITS | N834 | 30 |
| 43 | SINGLE SIDEBAND SYSTEMS | 0845 | 30 |
| 44 | PULSE MODULATION SYSTEMS | 0875 | 31 |
| 45 | ANTENNAS | 0914 | 32 |
| 46 | TRANSMISSION LINES | P953 | 34 |
| 47 | WAVEGUIDES AND CAVITY | P984 | |
| | RESONATORS | | 35 |
| 48 | MICROWAVE AMPLIFIERS AND | P1034 | |
| | OSCILLATORS | | 37 |
| 49 | REGISTERS | Q1110 | 39 |
| 50 | STORAGE DEVICES | Q1117 | 40 |
| 51 | DIGITAL TO ANALOG CONVERTERS | Q1126 | 40 |
| 52 | PHANTASTRONS | Q1140 | 41 |
| 53 | SCHMITT TRIGGERS | R1141 | 41 |
| 54 | CABLE FABRICATION | R1144 | 41 |
| 55 | INPUT/OUTPUT DEVICES | S1146 | 41 |
| 56 | PHOTO SENSITIVE DEVICES | S1149 | 41 |
| 57 | SYNCHRONOUS VIBRATIONS | S1150 | |
| | (CHOPPER CIRCUITS) | | 41 |
| 58 | INFRARED | T1159 | 41 |
| 59 | LASERS | T1186 | 42 |
| 60 | DISPLAY TUBES | T1220 | 43 |
| 61 | PROGRAMMING | U1234 | 43 |
| 62 | DB AND POWER RATIOS | U1255 | 44 |

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

| | 46250 |) |
|---------|---------------------|----------------------|
| COMMAND | PERCENT ASSIGNED | PERCENT OF SAMPLE |
| ADC | 5 | 5 |
| AAC | 1 | 2 |
| TAC | 48 | 39 |
| USAFE | 20 | 19 |
| SAC | 14 | 14 |
| PACAF | 8 | 15 |
| AFSC | 2 | 1 |
| ATC | 1 | 1 |
| OTHER | <u>i</u> | 4 |
| TOTAL | 100 | 100 |

Total Assigned - 5,862 Total Sampled - 1,205 Percent Sampled - 21%

PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the five selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Multimeter Uses (p 3) to low in areas such as Meter Movements (P 29), Electron Tube (pp 21-22) and AM Systems (pp 23-24). Additional AFSC 462XO data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

SPSUMS PAGE

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE 462XO CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

| DAFSC 46250 DAFSC 46250 DAFSC 46250 DAFSC 46250 DAFSC 46250 | AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 STATIONED IN CONUS AIRMEN DAFSC 46250 ASSIGNED TO SAC AIRMEN DAFSC 46250 ASSIGNED TO TAC | AIRMEN DAFSC 4625G AIRMEN DAFSC 4625G STATIONED IN CONUS AIRMEN DAFSC 4625G ASSIGNED TO SAC AIRMEN DAFSC 4625G ASSIGNED TO TAC | 1205 MEMBERS. | 713 MEMBERS. | 166 MEMBERS. | 475 MEMBERS. | 233 MEMBERS. |
|--|--|---|---------------|--------------|--------------|--------------|--------------|
| DAFSC 46250 DAFSC 46250 DAFSC 46250 DAFSC 46250 DAFSC 46250 | AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 | AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 | CONTAINING | CONTAINING | CONTAINING | CONTAINING | CONTAINING |
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| DAFSC 46250 DAFSC 46250 DAFSC 46250 DAFSC 46250 DAFSC 46250 | AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 | AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 AIRMEN DAFSC 46250 | | ATIONED IN | SIGNED TO | SIGNED TO | SIGNED TO |
| DAFSC DAFSC DAFSC DAFSC DAFSC | AIRMEN DAFSC AIRMEN DAFSC AIRMEN DAFSC AIRMEN DAFSC AIRMEN DAFSC | AIRMEN DAFSC AIRMEN DAFSC AIRMEN DAFSC AIRMEN DAFSC AIRMEN DAFSC | 46250 | 46250 | 46250 | 46250 | 46250 |
| | AIRMEN AIRMEN AIRMEN AIRMEN | ALL AIRMEN ALL AIRMEN ALL AIRMEN ALL AIRMEN | DAFSC | DAFSC | DAFSC | DAFSC | DAFSC |
| 4444 | SPC101 SPC102 SPC104 SPC106 SPC106 | | 11 | " | " | " | " |
| = SPC101 ALL = SPC102 ALL = SPC104 ALL = SPC105 ALL = SPC106 ALL | | | IDENTITY | IDENTITY | IDENTITY | IDENTITY | IDENTITY |
| 4444 | | IDENTITY = | | | | GROUP | |

GPSUMS PAGE

| | DY-TSK | SPC 101 | SPC 102 | SPC 104 | SPC 105 | SPC 106 | | |
|---|---|------------|------------|------------|------------|------------|--|---|
| 4 | 1 A1-D1 IN YOUR PPESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS OF 10. | 55 | 5 | 38 | 5 | 52 | | |
| 4 | 2 A1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY | 23 | 20 | 6 | 21 | 27 | | |
| | A1-03 DO YOU PEARRANGE AND SOLVE P | 0 | 6 | 1 | • | 13 | | |
| | 4 A1-04 DO YOU CALCULATE THE SQUARE ROOT OF A GUANTITY. 5 A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITIES. | 22 | 22 | 22 | | 0 0 | | |
| | A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS. | - | - | 2 | - | - | | |
| | CALCULATIONS. | - | - | - | - | 7 | MATHEMATICS | |
| | DO YOU SOLVE OUADRATIC | - | - | 2 | - | - | | |
| | A1-09 | | ٦. | | ٦. | 0 | | |
| | 10 A1-10 DO YOU DERFORM CALCULATIONS ON VECTOR QUANTITIES. | | | | - 0 | - | | |
| | SINE, COSINE, OR TANGENT. | | | | | | | |
| | DO YOU DETERMINE ARE | 2 | 7 | - | 7 | * | | |
| | A1-13 DO YOU SOLVE OR USE | 2 | 21 | ~ | - 1 | - | | |
| 1 | 14 A1-14 DO YOU SOLVE OR USE PROPORTIONS. | 200 | 7 | 7 00 | 2 0 | | | |
| | A2-02 DO YOU USE THE TERM ELECTROMOTIVE F | 18 | 17 | 16 | 18 | 15 | | |
| | A2-03 DO YOU USE THE TERM OHM. | 11 | 72 | 75 | 72 | 82 | | |
| | A2-04 DO YOU USE THE TERM | # (| # (| 3 (| 3 (| m I | DIRECT CURRENT | |
| | AZ-US DO TOU USE THE LERH DINE. | 7 7 7 | 7 5 | V 4 | ٠, | 7 02 | AND VOLTAGE | |
| | YOU USE THE | , 40 | 1 50 | * | . 5 | 9 | | |
| | A2-08 DO YOU USE THE TERM | ~ " | ~ ~ | - " | | ~ | | |
| 1 | A3-01 DO YOU | 37 | 33 | 27 | 38 | 38 | | |
| 4 | A3-02 DO YOU | 25 | 25 | 21 | 27 | 22 | | |
| | 00 400 | 13 | 12 | 12 | 12 | 12 | | - |
| | AND THE DO YOU THEOR DIMITS VALUE OF | 33.4 | 40 | 200 | 2 | | | |
| | 9 A3-06 DO YOU REMOVE OR REPLACE | 27 | 27 | 56 | 53 | 56 | | |
| | A3-07 DO YOU USE OR REFER TO TEM | | * | 2 | * | | RESISTANCE | |
| | 31 A3-06 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED | 15 | 15 | 14 | 15 | 14 | | |
| | RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS. | 2 | | | 1.2 | | THE PARTY OF THE P | |
| | WITH AS CARBON, FIXED WIRE, SLI | : | ? | : | 3 | : | | |
| | POTENTIOMETER. 33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC | 18 | 18 | 16 | 18 | 11 | manuscript and an experience of the second s | |
| | VALUE OF RESISTANCE. | | : | | | | | |

GPSUMS PAGE 3

TASK GROUP SUMMARY

| 104 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
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|---|

INDUCTORS AND INDUCTIVE REACTANCE ALTERNATING CURRENT SPC 1C6 000 GPSUMS PAGE SPC 0 -00 0 SPC 104 2 SPC 102 SPC 101 O THE 1ERM AVERALENGING TO THE TERM WAVE LENGING A TO THE TERM INSTAURNEOUS VALUE.

R TO THE TERM INSTAURNEOUS VALUE.

R TO THE TERM INSTAURNEOUS VALUE.

R TO THE TERM INSTAURNEOUS VALUE.

TO YOUR PRESENT JOB. 1-09 DO YOU USE OR REFER TO COPPER LOSS IN INDUCTORS.
1-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN INDUCTORS.
1-11 DO YOU USE OR REFER TO EDDY CURRENT LOSS IN INDUCTORS.
1-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE NUMBER OF PEAK TO PEAK VOLTAGE. AVERAGE VOLTAGE (DC). WAVE LENGTH. FREQUENCY. 88 83-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREGUENCY. 183-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE IN-DUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE CROSS SECTIONAL AREA OF THE CORE. 83-16 DO YOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS 83-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTANCE IN SERIES-PARALLEL CIRCUITS.

86 B3-2G DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT
LAGS VOLTAGE IN AC INDUCTOR CIRCUITS.

87 B3-21 DO YOU CALCULATE INDUCTIVE REACTANCE. IN SERIES. 84 83-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL. 85 83-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS REFER TO THE TERM EFFECTIVE VOLTAGE CHOKES, OR CHOKE COILS IN YOUR PRESENT JOB. 183-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE PERMEABILITY OF THE CORE MATERIAL. 3-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO ITS REFER TO HENRIES.
REFER TO INDUCTIVE REACTANCE. 83-23 DO YOU WORK WITH POWER INDUCTORS. 83-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS. 83-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS. OR PEPLACE INDUCTORS. REFER TO INDUCTANCE. PCT MARS RESPONDING "YES" BY SELECTED GRPS INSPECT INDUCTORS. ADJUST INDUCTORS. CLEAN INDUCTORS. DY-TSK REFER REFER TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING OR OR 0000 REMOVE 82-01 00 YOU USE 83-14 DO YOU USE USING FORMULAS. 400 7004 YOU YOU YOU NOUCTORS, B3-13 D0 LENGTH. (RMS) TURNS 83-12 B2-03 83-02 83-03 83-04 83-05 83-06 83-07 83-08 83-09 83-10 83-11 83-01 83 82 16 67

GPSUMS PAGE 5

| | | CADACTTORS AND | CADACITIVE PLACE | CALACTITY. REALIANCE | | | | | | | | AND DESCRIPTION OF THE PROPERTY AND PARTY AND | | | | | | | | | | | the second secon | | | | | | | | | | | the second contract of | | | | | and the second s | | And the state of t |
|------------|---|----------------|------------------|----------------------|--------------|--------------|---------------------------------------|---|--|---------------|---------------|---|-------------|------------------------------|--|----------------|------------|---------------------------|------------------------------------|--------------------------------------|--|--|--|----------|---|------------------|---|----------|--|--------------------------|-------|-----------|--|--|-----------------------------|---|---|--|--|--|--|
| 106 | 6 | | 00 | m | 2 | 1 | 2 | 80 | ent | - | | 2 | | ~ | - | M | | ~ | s o | , | 0 1 | | 1 | , | 0 | | D | | 0 | | 0 | | - | - | | 0 | | - | 0 | 0 | - |
| 2PC 105 | 10 | | 00 | # | m | 9 | 2 | 00 | 2 | 0 | | 2 | | # | 1 | # | | ~ | m : | 7. | • | 20 | + | • | 0 | | 0 | - | 0 | | - | | - | 1 | | 7 | | - | 1 | - | - |
| 104 104 | 10 | | 2 | 3 | 2 | 2 | ~ | 00 | 1 | - | | 2 | | # | - | m | | 2 | 3 (| 01 | 00 (| 10 | 4 | | 2 | | - | - | - | | m | | ~ | = | | - | | - | 1 | - | - |
| SPC 102 | 10 | | 1 | • | 2 | 9 | 2 | 1 | 2 | 0 | | 2 | | 2 | - | # | | m | # (| 7. | 0 | 20 | * | , | - | | - | - | - | | 2 | | 7 | 2 | | 7 | | 2 | 2 | - | - |
| 101 | 6 | | 1 | 3 | 2 | 9 | m | ~ | - | 1 | | 2 | | đ | - | ŧ | | ~ | + (| , | ۰. | x 0 | * | , | 1 | | - | | - | | 2 | | 7 | 2 | | - | | 2 | 1 | - | - |
| DY-TSK | 92 C1-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING | CAPACITO | C1-02 DO YOU | C1-03 DO YOU | C1-04 DO YOU | C1-05 DO YOU | 97 C1-D6 DO YOU DISCHAPGE CAPACITORS. | 98 C1-07 DO YOU REMOVE OR REPLACE CAPACITORS. | 99 C1-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE. | DO YOU USE OR | A DIELECTRIC. | 101 C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR | PICOFARADS. | C1-11 DO YOU USE OR REFER TO | C1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT | U USE OR REFER | CAPACITORS | C1-14 DO YOU USE OR REFER | C1-15 DO YOU USE OR REFER TO CAPAC | CI-16 DO YOU WORK WITH CAPACITORS IN | CI-17 DO YOU WORK WITH CAPACITORS IN AC CIRCUITS | 109 CI-18 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC | THE CITE OF YOU WORK WITH CAPACITORS IN DON'T PEWEMBER WHICH | CIRCUITS | 111 C1-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR | CAPACITORS USING | 112 CI-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE | CONSTANT | 113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT | THE DIFFECTION THICKNESS | J | IN SERIES | 115 CI-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS | IN PARALLEL IN PARALLEL IN CAPACITORS | IN SERIES-PARALLEL CIRCUITS | | DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS | 118 C1-27 DO YGU USE OR REFER TO THE GENERAL MULE THAT CURRENT | 119 C1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT | FREQUENCY 120 C1-29 DO YOU CALCULATE CAPACITIVE REACTANCE | The second secon |
| | U | | | 0 | | | | | | - | | 0 | | | 0 | | | | 0 | | | | - | | C 11 | | 2 | | c 11 | | C 114 | | 2 | 0 | | 2 | | 2 | - | C 12 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | _ | - | | |

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| SPC 106 | ε. | n a | 2 | | The second secon | n a | | 9 | | 1 | I | 2 | 5 TRANSFORMEDS | | c | 1 | 0 | 0 | 0 | | o | 0 | 0 | 7 | . c | 2 | • | • | The state of the s | 3 | | - | | 2 | | |
| SPC SF | 2 | | | , 4 | | n = | | 9 | 3 | 2 | 1 | 3 | , | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | - | 9- | - 0 | 2 | ~ | , | 3 | m | | _ | | 2 | | , |
| SPC SP 104 10 | 2 | 2 = | | , . | 1 | , u | n | 6 | 1 | v. | 3 | 7 | 1 | 2 | c | | - | - | 2 | | 2 | 2 | - | | | 5 | • | | 2 | | | | | | | 0 |
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| SPC S | 8 | | | . ~ | | r a | | 9 | 5 | 2 | 2 | 3 | S | - | 0 | | 0 | 0 | 1 | | - | - | - 1 | · - | | 2 | | , | m | • | | 7 | | 2 | | |
| DY-TSK | DO YOU WORK WITH ROTOR-STA | 1 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS | DO YOU HORK LITTL DADED ACT | DO VOIL HOUSE LITTLE ALLE ALLE | THE WORLD STATE OF THE PARTY OF | DO YOU WORK LITTE | TITORY | 1 DO YOU WORK WITH TRANSFORMERS IN YOUR PRESENT JOB | DO YOU INSPECT TRANSFORMERS | DO YOU | 00 400 | DO YOU TROUBLESHOOT TRANSF | DO YOU REMOVE OR REPLACE COMPLETE TRANSFOPMERS | 00 YOU | CO-DR DO YOU MAKE A DISTINCTION RETWEEN MUTUAL INDUCTION | | L FOR M | 10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING | CZ-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING | OR VOLTAGE RATIOS | C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH | TRANSFORMERS C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR | DO YOU WORK WITH AUTOTRANS | IS DO YOU WORK WITH POWER TRANSFORMERS | DO YOU WORK WITH PADIO FRE | DO YOU WORK WITH DON'T REM | TRANSFORMERS | | C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED LINDINGS BY | MEASURING RESISTANCE C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY | | C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR | 0.1 | C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP- | | CO-24 DO 700 REFER TO BASIC IRANSFORMER SCHEMATIC STRBUCS |
| | C1-30 | C1-31 | 25-17 | 21.1 | ;; | 61-13 | CAP | C2-01 | C2-05 | C2-03 | C2-04 | C2-05 | C2-06 | C2-07 | 2-67 | ANG | 136 C2-C | o | 138 C2- | | 139 C2- | 140 C2- | C2-1 | 62-15 | 62-17 | C2- | T S | NE NE | 147 62- | C2- | ME | C2-2 | STE | 150 C2-2 | 00 | 22 |

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| DY-TSK | 152 C2-25 DO YOU REFER TO MULTIPLE SECONDARY-WINDINGS SCHEMATIC | SYMBOLS FOR THANSFORMERS 153 C2-26 DO YOU REFER TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS | 154 C2-27 DO YOU REFER TO CENTER TAP SCHEMATIC SYMBOLS FOR | 155 C2-26 DO YOU REFER TO AIR CORE SCHEMATIC SYNLOLS FOR | 156 C2-29 DO YOU REFER TO IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS | 157 C2-3C DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC | 158 C2-31 DO YOU DETERRINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING | SCHEMATIC SYMBOLS 159 C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN | TRANSFORMERS YOU WORK WITH 160 C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE | TURNS RATIO OF A TRANSFORMER IS EQUAL TO THE VOLTAGE RATIO 161 C2-34 DO YOU USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS | | 163 C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS | | PHASE TRANSFORMERS | 165 CZ-38 DO YOU INSPECT THREE PHASE TRANSFORMERS | C2-4C DO YOU ADJUST THREE PHASE | C2-41 DO YOU TROUBLESHOOT THREE | 169 CZ-42 DO YOU REMOVE OF REPLACE COMPLETE THREE PHASE TRANSFORMERS | 170 C2-43 DO YOU REMOVE OR REPLACE THREE PHASE TRANSFORMER | PARTS SUCH AS WINDINGS | R TO TEMPORARY | C3-03 DO YOU USE OR REFER TO R | 0 0 0 00 00 | MATERIALS | 175 C3-05 DO YOU USE OR REFER TO PERHEABILITY OF MAGNETIC | C3-D6 D0 YOU USE OR REFER TO RESIDUAL | C3-07 DO YOU USE OR REFER TO M | LOX |

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| OUR PRESENT JOB, DO YOU WORK WITH, USE, OR REFER | SPC | | FILTERS | | | | | | | | | PARALLEL RESONANCE (TIME CONSTANTS) | SERIES AND | |
|--|--|---|--|--|--|---|---|--|--|----------|----------------------------------|--|-------------|--------|
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| | | | | | | |
| YOU MAKE MARDAIRE CONNECTIONS | 70 | 70 | 20 | 25 2 | 23 | |
| Z | . 0 | | 2 | 10 | | |
| CAPACITORS ON PRINTED CIRCUIT BOARDS E2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE | 1 | 80 | 3 | • | 2 | |
| CIRCUIT BOAR | 1 1 2 | | | | | |
| E3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB | 30 | 28 | 34 | 25 2 | 25 | |
| | 1 | 9 | # | 1 | · | |
| | 10 | 11 | 13 | | 9 | |
| | 21 | 21 | 22 | 20 1 | | |
| MPLETE | 58 | 27 | 31 | 2 42 | 25 KELAYS | |
| OR REPLACE PARTS OR RELAYS | 9 | 9 | 10 | 2 | - | |
| TROUBLESHOOT RELAYS | 28 | 56 | 31 | | 23 | |
| STRAIGHTEN RELAY CONTACTS | 6 | 0 | 11 | 1 | • | |
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| TOO USE ON RETER TO SINGLE FULLY STROKE THROW | 01 | 0 | 20 | • | 0 | |
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| MODERNIK CLOSEN COLUMNATO CAMBOL CON DELACE | | : | | | , | |
| YOU HAY OR REFER TO STAGE POLE DOUBLE THROW | 16 | 16 | 18 | 15 | 91 | |
| FOR RELAYS | | | | | | |
| TO DOUBLE POLE, DOUBLE THROW | 16 | 16 | 19 | 15 1 | 15 ** | |
| AYS | | | | | | |
| TO OTHER RELAY SYMBOLS SCHEMATIC | 16 | 16 | 20 | 14 1 | 15 | |
| | | | | | | |
| E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY | 15 | 15 | 19 | 14 1 | 14 | |
| MEASURING MESISTANCE | - | - | - | | | |
| | 2 | 2 | 11 | 7 7 7 | 0 | |
| DO COL TREBUT MICEOGRAPHS | • | | • | | • | |
| | | | - " | | , , | |
| | 1 | | 0 5 | • | 7 | 1 |
| | 16 | 15 | 77 | 1 4 1 | MICDODHONES | |
| FI-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE | 9 | 9 | 10 | • | 6 HICKOFINORES | |
| CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT | | | | | | |
| | | | , | | | |
| TROUBLESHOOT DOWN TO MICROPHONE PARTS | - | - | 2 | | | |
| REMOVE OR REPLACE COMPLETE MICROPHONES | | * | 10 | ~ | 2 | |
| OR REPLACE MICROPHONE PARTS | - | 2 | | 1 | 0 | |
| CAR | - | - | - | - | 0 | |
| CAPACITO | - | - | 0 | - | 0 | |
| STAL | - | - | - | - | 0 | |
| ON DYNAMIC MICROPHONES | 2 | 2 | • | 2 | | |
| ON VELOCITY RIBBON MICROPHONES | - | - | - | 1 | 0 | |

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| 104 105 106 | 7 4 3 | SPEAKERS . SPEAKERS | | | | | | 00 |) | The second secon | 0 0 0 | 0 | 0 | 1 | 0.00 | | 2 5 2 | | I & OSCILLOSCOPES | 2 2 | | 2 | 1 2 0 | 3 1 | | 1 2 0 | 2 | | 2 5 2 | | 5 6 7 | 2 9 9 | | | | | The state of the s |
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| DY-TSK | | WITH SPEAKERS | DO YOU CIFAN SPEAKERS | F2-04 00 | | CONNECTIONS | PARTS OF SPEAKERS | 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS | F2-08 DO YOU BEMOVE OR REPLACE CONTLETE | F2-09 DO YOU PERFORM ANY TASKS | F2-1C DO YOU PERFORM ANY TASKS ON | F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER | F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER | F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER | F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER | FZ-15 UO TOU PERFORM ANT TASKS ON SPEAKER SOFT | 342 F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT JOB 343 F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL | CHECKS | S44 FS-US DO TOO USE USCALLOSCUPES TO PERFORM ALIGNMENTS OR | 345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT FLECTRONIC | CIRCUITS | F3-05 DO YOU USE OSCILLOSCOPES TO | 347 FS-06 DO 400 USE OSCILLOSCOPES TO MEASURE LIME | F3-06 DO YOU USE OSCILLOSCOPES TO OBSERVE | UTILIZING ATTENUATOR PROBES | 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME | FR-10 GO YOU USE OSCILLOSCOPES | SIGNALS AFTER FIRST ADJUSTING | F3-12 DO YOU USE OSCILLOSCOPES | 354 GI-UI DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT | 355 61-02 DO YOU INSPECT DIODES | 61-03 DO YOU | 61-04 00 | 61-05 DO YOU USE ENERGY LEVEL DI | DIODES 359 61-06 DO YOU HEE DN JUNCTION DIODE CHROLIFERISTIC CURVES. | TOGETHER WITH VALUES OF FORMARD AND REVERSE BIAS | TO COMBILTY FROM AND DEVERORE LIBY DESTATANCE |

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| DY-TSK | USE OR REFER TO THE GENERAL | TEMPERATURE CAN AFFECT THE OPERATION OF DIOUES 362 G1-09 DO YOU IDENTIFY SEMICONDUCTOR DIOUES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON THEIR DHYSTCAL ADDRABANCE | 363 6 | 364 61-11 DO YOU USE OR REFER TO | 365 G1-12 DO YOU USE OR REFER TO DIODE COLOR CODING | 366 G1-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS | 367 G1-14 DO YOU USE OR REFER | 368 61-15 DO YOU USE OR REFER | 369 6 | 370 6 | 371 G1-18 DO YOU USE OR RESISTANCE | 372 6 | 373 61-20 DO YOU | 374 6 | 375 61-22 | 176 G1-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF | 377 6 | 378 6 | 379 61-26 DO YOU WEED TO KNOW THA TEMPERATURE COEFICIENTS OF | 380 G1-27 DO YOU USE OR REFER TO PN CHARACTERISTIC CURVES, SUCH AS | CHARACTERISTIC CURVES (PERHAPS YOU DO THIS TO IDENTIFY POINTS OF STRUCTURAL BREAKDOWN OR OPERATING REGIONS) 6 381 G1-28 DO YOU DETERMINE WHETHER PN JUNCTION DIODES ARE FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR | INTERPRET CIRCUIT DIAGRAMS 6 382 G1-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS |
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| USE OR REFER TO FOR MATERIALS USE OR REFER TO CON SR MATERIALS USE OR REFER TO CON USE OR REFER TO DON USE OR REFER TO DON USE OR REFER TO MANUSE OR REFER TO PEARLOW OR REFER TO MANUSE OR REFER TO PEARLOW OR REFER TO MANUSE OR REFER TO MANUS | | | | | | | | | | | | | | | | | | A STATE OF THE STA | | | | | | | 1 | TRANSISTORS | | |
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63-35 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO
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63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
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| DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR O O O O O O O YOU PERFORM TASKS ON FREQUENCY CONVERTERS DO YOU PERFORM TASKS ON FREQUENCY MINERS DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU UNSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU UNSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU UNSPECT AM TRANSMIT OR RECEIVE SYSTEMS | DO YOU USE OR REFER TO P | 0 | 0 | 0 | 0 | 0 | |
| DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS DO YOU DE PROM TASKS ON FREQUENCY MIXERS DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU PERFORM TASKS ON RECEIVE SYSTEMS DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS DO YOU UNSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS | YOU WORK ON TRANSMIT | 0 | 0 | 0 | 0 | 0 | |
| DO YOU DE PRORM TASKS ON FREQUENCY MIXERS DO YOU USE OF REFER TO THE HETERODYNING OF SIGNALS DO YOU USE OF REFER TO THE HETERODYNING OF SIGNALS DO YOU PERFORM TASKS ON REACTANCE HODULATORS DO YOU PERFORM TASKS ON HODULATED OSCILLATORS DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS | DO YOU PERFORM TASKS ON | 0 | ٥ | 0 | 0 | | CTEDODYNING |
| DO YOU PERFORM TASKS ON REACTANCE HODULATORS DO YOU PERFORM TASKS ON REACTANCE HODULATORS DO YOU PERFORM TASKS ON HODULATED OSCILLATORS DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS | DO YOU PEPFORM TASKS ON FREOUENCY MIXERS | c (| 0 | 00 | 0 0 | | ODULATION. AND |
| DO YOU PERFORM TASKS ON REACTANCE MODULATORS DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU UNSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU UNSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS | DO TOU USE OR REFER TO THE HETEROUTINE OF | | , | 5 | | | EMODULATION |
| DO YOU PERFORM TASKS ON MODULATED OSCILLATORS DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS | DO YOU PERFORM TASKS ON | 0 | 0 | 0 | 0 | 0 | |
| NO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR O O O O O O O O O O O O O O O O O O | DO YOU PERFORM TASKS ON | 0 | 0 | 0 | D | 0 | |
| DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | NO YOU WORK ON AM TRANSMIT OR RECEIVE | 0 | 0 | 0 | 0 | 0 | |
| DO YOU CLEAN AN HANSELL ON RECEIVE SYSTEMS | DO YOU INSPECT AN TRANSMIT | 00 | 0 | 01 | 0 | 1 | M CVCTEMS |
| | DO YOU CLEAN AN TRANSHIT | D | . | | - | | 201010 |

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| | | | - | | | | | | | | | | | | | | | | | | | | Commence of Control of | | | | | FM SYSTEMS | 25 | | | | | | | |
|------------|---|---|---|--|--------------------------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|---|--|--------------|---|--------------|---|--|----------------------------------|--------------------------------|------------------------------------|---|------------|--|--|--|--|-------------|-------------------------------------|---------------------------------------|---------|---------|---|---|---------|------------|-------------------------------|---|
| SPC 106 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | c i (| | 0 | | 0 | • | | | 0 | c | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | = 0 | | , | 0 | 0 | | 0 | 0 | 0 |
| SPC 105 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 | | 0 | c | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | | 0 0 | , | 0 | 0 | | 0 | 0 | 0 |
| SPC 104 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 0 | | 0 | c | 0 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | | 0 | - | | 0 | 0 0 | 0 0 | | 0 | | , | D | 0 | 0 |
| SPC 102 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o c | 00 | | 0 | c | | 00 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | - | | 0 | 0 | 0 0 | , | 0 | | | • | 0 | 0 |
| SPC 101 | 00 | 0 | 0 | 0 | 0 | 0 | c | 0 | 0 0 | - c | 00 | | 0 | c | o c | 00 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | - | | 0 | 0 0 | 00 | , | 0 | 0 | | 0 | 0 | 0 |
| DV-TSK | K 642 KI-DS DO YOU TROUBLESHOOT TO AH TRANSMIT OR RECEIVE SYSTEMS K 643 KI-D6 DO YOU TROUBLESHOOT TO AH TRANSMIT OR RECEIVE | K 644 KI-CT DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE | K 645 KI-08 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE | K 646 K1-09 DO YOU PERFORM TASKS ON RF OSCILLATORS | KI-10 DO YOU PERFORM TASKS ON RF AMP | 648 KI-11 DO YOU PERFORM TASKS ON AUDIO | 649 KL-12 DO YOU PERFORM TASKS ON | 650 KI-13 DO YOU PERFORM TASKS ON | 651 KI-14 DO YOU PEPFORM TASKS ON | K 652 KI-15 DO YOU PERFORM TASKS ON DETECTORS | 654 KI-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION I | TRANSMITTERS | N 655 KI-16 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN | TRANSMITTERS | AI-19 DO TOU USE OR REFER TO SENSITIVITY OF | 658 K1-21 DO YOU USE OR REFER TO 2ND HARMONIC DI | 659 KI-22 DO YOU USE OR REFER TO | K1-23 DO YOU USE OR REFER TO S | 661 K1-24 DO YOU USE OR REFER TO C | 662 K1-25 DO YOU USE OR REFER TO IMAGE FREQUENCIE | NO YOU USE | K 664 KI-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM | TRANSMITTER SCHEMATIC DIAGRAMS | X 665 K1-28 DO YOU TRACE SIGNALS OR CURPENT PATHS THROUGH AM | K 666 K2-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS IN | PRESENT JOB | 667 K2-02 DO YOU INSPECT FM TRANSMI | 668 K7-33 DO YOU CLEAN FM TRANSMIT OR | PANSMIT | SYSTEMS | K 671 K2-06 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE | K 672 K2-07 DO YOU REMOVE OF REPLACE FH TRANSMIT OR RECEIVE | SYSTEMS | COMPONENTS | K2-09 DO YOU PERFORM TASKS ON | K 675 K2-1G DO YOU PERFORM TASKS ON FREQUENCY MULTIPLIERS |

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TASK GROUP SUMMARY

| K 676 K2-11 GO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS) | | 101 | 102 | 104 | 105 | 106 |
|---|----------------|-----|-----|-----|-----|--|
| 676 K2-11 GO YOU PERFORM TASKS ON DRIVERS APPLIFIERS) | | 0 | | 1 | - | |
| AMPLIFIERS) K2-12 DO YOU PERFORM TASKS ON P | TE. | | 0 | 0 | 0 | 0 |
| KZ-1Z DO YOU PERFORM IASKS ON P | | | (| , | (| |
| | | 0 | 0 | 0 | 0 | 0 |
| KZ-13 DO YOU PERFORM TASKS ON R | | 0 | 0 | 0 | 0 | |
| K2-14 DO YOU PERFORM TASKS ON F | • | 0 | 0 | 0 | 0 | C |
| YOU PERFORM TASKS ON I | | 0 | 0 | 0 | 0 | 0 |
| 681 K2-16 DO YOU PERFORM TASKS ON LIMITERS | | 0 | 0 | 0 | 0 | 0 |
| K2-17 DO YOU PERFORM TASKS ON F | ATORS | 0 | 0 | 0 | 0 | 0 |
| K2-18 DO YOU TRACE SIGNALS OR C | 115 | 0 | 0 | 0 | C | c |
| SCHEMATIC DIAGRAMS OF FM TRANS | | | | | | |
| 684 K2-19 DO YOU TRACE SIGNALS OR CURPENT PATHS THROUGH | HS | 0 | 0 | 0 | 0 | 0 |
| SCHEMATIC DIAGRAMS OF FM RECET | | | - | | | and the second s |
| ASE 10) NUMBERS | TO OCTAL | - | 1 | 3 | 1 | 0 |
| (BASE 8) NUMBERS | | | | | | |
| YOU CONVERT DECIMAL NUMBERS TO BINARY | (BASE 2) | 2 | 2 | 1 | 7 | 0 |
| | | | | | | NUMBERING |
| 687 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS | BERS | - | - | 2 | - | 1 SYSTEMS |
| KR-DU DO YOU CONVERT OCTAL NUMBERS TO BINARY | FRS | - | 1 | - | 1 | non-A con- |
| KA-DE DO VOII CONVEDT | BEDS | | | - | | • |
| TO NOT TO SOLEN | 5000 | | | | | |
| TO T | 2 | • • | | ٠. | • : | |
| 691 K3-U7 DO YOU AUD BINAMY NUMBERS TO GE! A SUM | - CALLOO - CAL | 200 | 1 | | • • | - |
| AS-US DO TOO SUBREACT BINARY NOTBERS USING THE | - ARODAR- | , | , | • | , | • |
| CARRY METHOD | | | | | | |
| CI BINARY NUMBERS USING THE | DIRECT | • • | • | 7 | • | • |
| SUBTRACTION METHOD | | | | | | |
| K3-10 DO YOU ADD OCTAL NUMBERS | | - | - | 2 | - | |
| 695 L1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS | (\$ | 7 | 7 | - | 7 | 2 |
| RELATING TO LOGIC FUNCTIONS | | | | , | | |
| 696 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS | SYMBOLS | - | 7 | 0 | 2 | 0 |
| OR GATES | | | | | | SHOTT CHACTIONS |
| 697 L1-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS | SYMBOLS | - | 2 | 0 | - | D COSTC LONGITONS |
| CA CA CA CA CA CALCA TABLET TABLET CON AND CO AND CO TOTAL | 2130 | | | | | • |
| CAMPOL CHATE CTATE INDICATOR | 71907 | | | , | | |
| | 21901 00 | | | c | | • |
| CAMBOIL | 2100 | | | , | | A THE RESIDENCE OF THE PARTY OF |
| | 1 OF TC | • | • | c | 0 | |
| SYMBOLS OR GATES | 71007 | , | | , | | A CONTRACTOR OF THE PROPERTY O |
| | 0610 | 2 | 2 | 0 | 2 | - |
| SYMBOLS OR GATES | | | | | | The state of the s |
| 702 L1-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR | OR OR | - | 2 | 0 | 2 | - |
| LOGIC SYMBOLS WITH STATE INDICATORS | | | - | - | - | The second secon |
| REFER TO TRUTH TABLES FOR | EXCLUSIVE OR | - | 2 | 0 | 2 | 1 |
| LOGIC SYMBOLS | | | | | | |
| L1-1G DO YOU USE OR REFER TO LOGIC SYMBOLS FOR | AND GATES | 2 | 2 | 0 | 2 | 2 |
| L1-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR | OR GATES | 2 | 2 | 0 | 2 | 2 |
| YOU USE OR REFER TO LOGIC SYMBOLS FOR | NAND OR NOR | 2 | 2 | 0 | 2 | 2 |

BOOL EAN EQUATIONS SPC 106 0 26 GPSUMS PAGE SPC 105 3 PC 102 SPC 101 0 730 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP TRANSISTOR LOGIC (DCTL) CIRCUITS L 710 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS L2-15 DO YOU WORK WITH MONGSTABLE (ONE-SHOT) 715 L2-D8 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES T16 L2-D9 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS L 728 L2-21 DD YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC L 717 L2-13 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL OF FULL ADDER LOGIC DIAGRAMS OR GATES L 708 L2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC YOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS 713 L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS
714 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN L 719 L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER L 731 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS L 707 L1-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS OR REFER TO FLIP-FLOP TRUTH TABLES OR REFER TO COMPLEMENTED FLIP-FLOP OR REFER TO SINGLE-SHOT MULTIVIBRATOR DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP 712 L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES L 723 L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR L 711 L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN L 709 L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED L 720 L2-13 DO YOU WORK WITH ASTABLE (FREE RUNNING)
MULTIVIBRATORS PCT MARS RESPONDING "YES" BY SELECTED GRPS DY-TSK TASK GROUP SUMMARY PEPCENT MEMBERS PEPFORMING SCHEMATIC DIAGRAMS 724 L2-17 DO YOU USE 726 L2-19 DO YOU USE 727 L2-20 DO YOU USE L 725 L2-18 DO YOU USF (CML) CIPCUITS LOGIC DIAGRAMS MULTIVIBRATORS LOGIC SYMEOLS EQUATIONS CIRCUITS L 729 L2-22 DO SYMBOLS L 732 L2-25 L 718 L2-11 721

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| | COUNTERS | | | | | | | | TIMING CIRCUITS |
|------------|--|--|--|---|---|---|---|-------------|---|
| SPC 106 | mm N D D | c 0 c 0 c | 0 0 | | 0 0 | 0 0 0 | 0 0 | | 000 0 |
| SPC 105 | SMMHH | 0 | | | 0 - | | | D | -00 0 |
| SPC 104 | | 00006 | 0 0 0 | | 0 0 | 0 | 0 0 | 000 | 0-0 0 |
| SPC 102 | ***** | 0 | | | 0 - | | 0 - | 0 | |
| SPC 101 | ***** | 0-000 | c 0 0 | | 0 0 | | 0 - | 0 0 - | 0000 |
| DY-TSK | L3-01 DO YOU WORK WITH DIG L3-02 DO YOU USE OR REFER L3-03 DO YOU USE OR REFER L3-04 DO YOU USE OR REFER L3-05 DO YOU USE OR REFER | 738 L3-06 DO YOU USE OR REFER TO RING COUNTERS 739 L3-D7 DO YOU USE OR REFER TO DECADE COUNTERS 740 L3-D8 DO YOU USE OR REFER TO COUNT DETECT CIRCUITS 741 L3-D9 DO YOU USE OR REFER TO DOWN CLOCKS 742 L1-1G DO YOU USE OR REFER TO UP CLOCKS | L 743 L3-11 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-COUNTERS HAVING COMPLEHENTED FLIP-FLOPS L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS | THE L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS 746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS RING COUNTERS | L3-15 DO YOU TRACE DATA FLOW SERIAL UP-COUNTERS FEEDING A L3-16 DO YOU TRACE DATA FLOW SHIFT REGISTERS | L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF COUNTERS L 750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS L 751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT | PULSES FOR SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENT- ING FLIP-FLOPS L 13-22 L3-20 OF YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTERS L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT | # 12 0 12 # | M 757 M1-01 DO YOU WORK WITH SAUTOOTH WAVE GENERATORS M 758 M1-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS M 759 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK M 760 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK |

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TASK GROUP SUMMARY

| | SPC SPC SPC SPC | 102 104 105 | 0 0 0 | | | | | | 1 0 0 1 0 | | 0 0 0 0 | | | 1 2 1 1 0 | 2 1 1 1 1 | 1 1 1 0 | USE OF SIGNAL GENERATORS | 1 1 1 0 | | | 0 0 0 0 | 0 0 0 | | 0 1 1 | 1 1 1 0 | | 17 11 11 11 | | 2 | 4 8 3 2 | 17 | 9 1 | 2 2 3 1 1 | , | 1 2 | | 0 8 | | | |
|----------------------------|-----------------|-------------|---|----------------------------------|-----------------------------|-------------------------------------|---------------------------------|-----------|--|-----------|---|-----------|-----------|----------------------|--|---|---|---|-------------------------------|----------------------------------|---|-------|---|----------------------------------|------------------|------------|--|-------|-----------------------|--------------|-----------------------------|----------------------------------|--|-----------------------|-----------------------------------|-----------------------------------|---|--|-----------------------------------|-----------------------------------|
| PERCENT MEMBERS PERFORMING | | DY-TSK | 761 M1-05 DO YOU NORK WITH BLOCKING OSCILLATORS | M1-06 DO YOU USE OR REFER TO RIS | MI-OT DO VOIL HEE OD DEFEED | MI-OR DO VOIL HEE OR DEFER TO SUFFE | AT OF SO THE STATE TO SHEET THE | MAYEFORMS | 766 MI-13 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH | WAVEFORMS | 767 MI-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAUTOOTH | WAVEFORMS | DAVERDRAS | USE SIGNAL GENERATOR | 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL | 771 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS | ADJUSTING, ALIGNING, OR CALIBRA GENERATORS | 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMELY | WHILE USING SISNAL GENERALORS | COMPONENT WHILE USING SIGNAL GEN | M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS | | AS SQUARE WAVE, TRIANGLE, PULSE, OR SPIKE | M2-09 DO YOU USE RE GENERATORS G | M2-10 DO YOU USE | GENERATORS | LITH ALTERNATING CHRRENT OR DIRECT CURRENT MOTORS OR | ATORS | DO YOU INSPECT MOTORS | M3-03 DO YOU | M3-04 DO YOU OPERATE MOTORS | M3-05 DO YOU REMOVE OR REPLACE C | 784 M3-06 DO YOU REMOVE OF REPLACE MOTOR PARIS | CONNECTIONS OF MOTORS | M3-08 DO YOU TROUBLESHOOT DOWN TO | M3-09 DO YOU PERFORM ANY TASKS ON | 788 M3-10 DO YOU PERFORM ANY TASKS ON ARMAIURES | No. of the last of | M3-12 DO YOU PERFORM ANY TASKS ON | H3-12 DO YOU PERFORM ANY TASKS ON |

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| 0Y-TSK | 101 | 102 | 104 | 105 | 106 | |
|--|------------|-----------|------------|-----|-----|--|
| 794 M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE | - | - | - | - | - | |
| 795 M3-17 DO YOU DETERMINE ON MEASURE THE DIRECTION OF THE | - | - | - | - | - | |
| 796 M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE | 1 | - | - | 0 | 1 | |
| OR DIREC | | | | 1 | | |
| M3-19 DO YOU WORK WITH | | ٦. | | | 0. | |
| M3-20 DO YOU WORK WITH | - | - | ~ | - | - | |
| M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS | | | m (| 0, | | |
| M3-22 DO YOU | n 1 | ~ | 2 | ~ | ~ | |
| M3-23 DO YOU INSPECT GENERATORS | | # | a . | m | 0 | |
| M3-24 DO YOU | - | - | - | - | - | |
| M3-25 DO YOU OPERATE SENERATORS | 60 | 60 | 13 | 9 | - | |
| DO YOU REMOVE OR REPLACE | 0 | - | - | - | 6 | |
| DO YOU REMOVE OR REPLACE | 0 | 0 | - | 0 | 0 | |
| | ~ | 7 | - | m | 0 | |
| OF GENERATORS | | | | | | |
| 807 M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF | 0 | 0 | - | 0 | 0 | |
| SENERATORS | 5.5 | 50 | 011 | - | 6.0 | |
| | 2 | , | | 1 | | |
| 809 NI-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS | 7 | 7 | - | 7 | 2 | |
| 810 NI-D3 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF | ~ 1 | 2 | 2 | 2 | 2 | METER MOVEMENTS |
| The state of the s | | | | | | |
| 611 NI-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF | ~ | m | 3 | 2 | • | |
| SPIRAL SPRINGS | | 1 | | 1 | | |
| NI-05 DO YOU READ METER SCALES | 09 | 25 | 2 | 25 | 29 | |
| N1-06 DO YOU | 12 | 10 | 0 | = | 13 | |
| N1-07 00 | 57 | 25 | 6 1 | 53 | 61 | |
| DO YOU ZERO AMMETERS | 16 | 14 | 13 | 13 | 16 | |
| | 22 | 19 | * | 21 | 27 | |
| 817 NI-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY (FXPRESSED IN UNITS OF OHMS PER VOLT) | 22 | 19 | 20 | 19 | 21 | |
| 818 N2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC | 0 | P | b | 9 | D | |
| | | | | | | |
| 819 N2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE | D | 0 | D | 6 | D | |
| 820 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE | 0 | 0 | 0 | 0 | 0 | SATURABLE REACTORS |
| REACTORS | | | | | | AND TELEBE |
| 621 N2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE | 0 | 0 | 0 | b | D | AMPLIFIERS |
| REACTORS | | | | | | |
| 622 NZ-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE | 0 | 0 | 0 | 0 | 0 | |
| 823 N2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR | 0 | 0 | 0 | 0 | 0 | |
| SATURABLE REACTORS | | • | | | | The second secon |
| THE PARTY OF THE P | | | | | | |

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SINGLE SIDEBAND SYSTEMS WAVESHAP ING CIRCUITS SPC 106 00 0 0 0 0000 000 0 00 0000 30 0 0 GPSUMS PAGE SPC 00 0 0 0 0 0 - 0 0000 0 0 SPC 104 00 0 0 0 0000 000 0 00 0000 0 0 0 SPC 102 00 0 a 0 0 0000 0 SPC 101 00 0 0 0 0 0 0 - 0 0000 0 0 0 N2-08 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE REACTORS N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT N3-01 DO YOU WORK WITH WAVESHAPING CIRCUITS IN YOUR PRESEN CONSTANT REFER TO TRANSIENT INTERVALS
REFER TO PULSE WIDTH (PW)
REFER TO PULSE RECURRENCE TIME (PRT)
REFER TO PULSE RECURRENCE FREQUENCY WAVEFORMS FOR MAGNETIC AMPLIFIERS N2-12 DO YOU USE OR REFER TO COERCIVE FORCE IN SATURABLE N 833 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC N3-D6 D0 YOU USE OR REFER TO DIFFERENTIATING CIRCUITS
N3-D7 D0 YOU USE OR REFER TO INTEGRATING CIRCUITS
N3-D8 D0 YOU USE OR REFER TO THE CLASSIFICATION OF TIME
CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT
N3-D9 D0 YOU DETERMINE WHETHER AN LR OR RC CIRCUIT IS N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE 01-08 DO YOU REMOVE OR REPLACE SSB TRANSMIT OR RECEIVE 01-07 DO YOU REMOVE OR REPLACE SSB TRANSMIT OR RECEIVE N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN SATURABLE REACTORS
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YOU WORK WITH RECTANGULAR WAVE GENERATORS
YOU WORK ON SINGLE SIDEBAND SYSTEMS IN YOUR N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN NTEGRATING BASED ON THE TIME DY-TSK OUTPUT CONFIGURATION PERCENT MEMBERS PERFORMING IFFERENTIATING OR I 0000 ATURABLE REACTORS USE USE USE USE GROUP SUMMARY N 835 N3-02 DO YOU U N 836 N3-03 DO YOU U N 837 N3-04 DO YOU U N 838 N3-05 DO YOU U COMPONENTS REACTORS REACTORS REACTORS N 843 N3-10 DO 00 PRESENT SYMBOL 849 01-05 846 01-02 N 839 N3-06 N 841 N3-78 840 N3-07 845 01-01 825 826 831 830 842 827 828 N 829 851 848 N 832 N 834 847

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| PCT MARS RESPONDING "YES" BY SELECTED GRPS | TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING | DY-TSK | 0 889 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | RFORM TASKS ON | CHARGING CHOKES AND CHARGING DIODES O 891 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | PULSE FORMING NETWORKS O 892 OZ-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | 0 893 02-19 GO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | OU PER | 0 895 02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | PEP | 0 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | 0 898 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | 0 899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | 0 905 02-26 00 YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | 0 901 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM | PER | E OR REFER TO PULSE RECURRENCE | 904 02-30 DO YOU USE OR REFER TO PULSE | 0 905 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW) | 907 02-33 DO YOU USE OR REFER TO | 02-34 DO YOU USE OR REFER TO | 0 909 02-35 00 YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE TIME (PRT) OR PULSE | SURE | 0 911 02-37 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR | DO 912 02-18 DO YOU TORKE STEWNS OF OUR CURRENT PATHS THROUGH PULSE | MODULATION TRANSMITTER SCHEMATIC DIAGRAMS | O 913 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS | 914 03-01 DO YOU HOR | 0 915 03-02 DO YOU INSPECT ANTENNAS |

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TASK GROUP SUMMARY

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PCT MBRS RESPONDING "YES" BY SELECTED GRPS TASK GROUP SUMMARY
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| DY-TSK | PIGGS P2-2C DO YOU USE OR REFER TO 383 WALL OF WAVEGUIDES | P2-22 DO YOU USE OR REFER TO WAVEGUIDES | PIOD6 P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF WAVEGUIDES | PIDGT P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS | PIGOS P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY | PIGOS P2-26 DO YOU USE OR REFER TO DUPLEXER FIELD BOUNDARY | PIGIG P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A 282 WALL SIZE OF .7 LAVELENGTHS | PIDII P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST >A> WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH .35 | PIGIZ P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS) | WHICH WAVEGUIDES ARE MADE OF PIGI3 P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC | PIDIU P2-31 DO VOU USE THE RIGHT HAND RULE TO DETERMINE THE | VEGUIDES THE TIME PHASE OF PEAN | THE LINES IN MAVEGUIDES PIGIG P2-33 DO YOU MEASURE THE TIME PHASE OF SES OR SHE LINES IN | MAVEGUIDES PIGG OR REFER TO THE SPACE GUADPATURE OF SES OR | 245 LINES IN WAVEGUIDES PIGI8 P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY | RESONATORS YOU WORK WITH PIGG ON WAVEGUIDES OF CAVITY | RESONATORS YOU WORK WITH PIOZO P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS | YOU WORK WITH PIG21 P2-38 ARE APERTURES (WINDOWS OR IRISES) USED ON WAVEGUIDES | OR CAVITY RESONATORS YOU WORK WITH PIGZ2 P2-39 ARE DON'T REMEMBER THE KIND OF ENERGY COUPLING USED | ON MAYEGUIDES OR CAVITY RESONATORS YOU WORK WITH PIOSS P2-4G DO YOU DETERMINE WHERE PROBES SHOULD BE HOUNTED IN WAVEGUIDES OF CAVITY RESONATORS WITHOUT REFERRING TO | SITIONING OF LOOPS IN |

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| | | DY-15K | 101 | 102 1 | 104 105 | | 106 |
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| | 1 | | | 1 | 1 | | |
| P1025 P2-42 IN W | IVEGUI | P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO | 0 | o | | 0 | 0 |
| | TECHNICAL DATA | | | | | | |
| P1026 P2-43 | P2-43 ARE CHOKE | TONE JOINTS USED IN MAVEGUIDES OR CAVITY | 0 | 0 | | 0 | 0 |
| P1027 P2-44 | ARE R | P2-44 ARE ROTATING JOINTS USED IN MAVEGUIDES OR CAVITY | 0 | 0 | 0 | 0 | 0 |
| | MATORS | RESONATORS YOU HORK WITH | | | | | |
| P1028 P2-45 | ARE D | P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN | 0 | - | 0 | - | 0 |
| WAVE | SUIDES | ATORS YOU WORK | | | | | |
| | 00 40 | P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING | 0 | 0 | 0 | 0 | 0 |
| | 00 40 | TUNE CAVITY RESONATORS USING INDUCTIVE TUNING | 0 | 0 | 0 | 0 | |
| | DO Y0 | TUNE CAVITY RESONATORS USING VOLUME TUNING | 0 | 0 | 0 | 0 | 0 |
| P1032 P2-49 | DO Y0 | P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER | 0 | 0 | 0 | - | 0 |
| | 4E THOD | | | | | | |
| P1033 P2-50 | 2-50 DO YOU | P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS | D | | 0 | 0 | 0 |
| D1034 D2-019 | INV | DA-FOLL DEFECTIVE TOR DO YOU HORK MITH KLYSTEONS. | 0 | 0 | 6 | 0 | c |
| • | EL ING | (TET) | | | | | |
| | MAGNE IRONS | | , | | | | - MICOORING |
| | P3-02 DO YOU | USE OR REFER TO | D | | | 0 | |
| | 00 400 | USE OR REFER TO | 0 0 | 0 | 0 | 0 0 | D AMPLIFIERS AND |
| | 00 400 | USE ON MEPER 10 | | , | 0 | , | |
| P1038 P3-05 | CIRCUITRY | USE OR | | 0 | 0 | 0 | |
| P1039 P3-06 | P3-06 DO YOU MODULATION | I USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY | 0 | 0 | 0 | 0 | 0 |
| 0 | | CATACONIC MODEL OF COMPANY | • | • | • | • | |
| P1041 P3-08 | 200 | WORK WITH TWO- | 00 | | 90 | | |
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| P1044 P3-11 | 00 | MORK WITH TRAV | 0 | 0 | | | 0 |
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| P1049 P3-16 | | CLEAN KLYSIRON | 0 | | 01 | | |
| | | TUNE KLYSTRONS | 0 | 0 | 0 | 0 | |
| | | TUNE KLYSTRONS OR THT MECHANICALLY | c | | 0 | 0 | |
| P1052 P3-19 | DO YOU | PERFORM OPERAT | 0 | 0 | 0 | 0 | 0 |
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| | 00 | TROUBLESHOOT K | 0 | 0 | • | P | 0 |
| P1054 P3-21 | DO YOU | | 0 | 0 | 0 | 0 | 0 |
| 15 P3-22 | | I REMOVE OR REPLACE KLYSTRON OR THT COMPONENTS | 0 | 0 | 0 | 0 | 0 |
| | 00 | INSPECT PARAME | 0 | 0 | 0 | 0 | 0 |
| | 00 | I CLEAN PARAMETRIC AMPLIFIERS | 0 | 0 | 0 | 0 | 0 |
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| 0Y-TSK | DO YOU TUNE PARAMETRIC AMPLIFIERS | P3-27 DO YOU PERFORM OPERATIO | P3-28 DO YOU TROUBLESHOOT PARA | PIGGS P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC | PIG63 P3-3G DO YOU REMOVE OP REPLACE PARAMETRIC AMPLIFIER COMPONENTS | P3-31 00 YOU INSP | P3-32 DO YOU CLEAN M | PIDG6 P3-33 DO YOU ADJUST MAGNETRONS PIDG7 P3-34 DO YOU TUNE MAGNETRONS | P3-35 DO YOU | PID69 P3-36 DO YOU TROUBLESHOOT MAGNETRONS | P3-33 DO YOU REMOVE OR REPLACE MAGNETRON | PIG72 P3-39 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | PIG73 P3-40 DG YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TWO-CAVITY KLYSTPONS CATCHER CAVITIES P1074 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | THO-CAVITY KLYSTRONS CATCHER GRIDS | | OR REFER TO | PIG77 P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | IS BUNCHER CAVITIES | | PIDSO P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TWO-CAVITY KLYSTRONS CATHODES | REFLEX KLYSTRON REPELLER (REFLECTOR) PLATES | | OR REFER TO | GRID CAVI | OR REFER | PID86 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | PID87 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON CATHODES | |

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| DY-TSK | PIDES P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | PIG89 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TRAVELING-WAVE TUBES FILAMENTS | TOWN 73-51 DO TOU USE ON METER TO THE OPENATING PRINCIPLES OF | PIG91 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TRAVELING-WAVE TUBES MODULATOR GRIDS | P1092 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TRAVELING-WAVE TUBES ANODES | PIDSS PS-60 DO YOU USE ON REPEN TO THE OPENATING PRINCIPLES OF | PINOU PI-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TRAVELING-WAVE TUBES COLLECTORS | P1095 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TRAVELING-WAVE TUBES MAGNETS | PID96 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF | TRAVELING-WAVE TUBES ATTENUATORS | PIO97 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE | PIDGE PI-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL | CAVITIES | PID99 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLER | CAVITIES | PIIOO P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR | PIICI P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE | ISOLATORS | | BIAS BAILERIES | | DE TO TO TOU DE DE DE DE TANKS ON | DE-73 DO VOII DEDECTOR TACKS ON | TO SASAT MODE DE DO ST. TO | DY-75 DO VOIL BEDEADY TACKS ON PETHONES | TO YOU DEBEROOM TACKS ON | 01-01 00 YOU USE OR REFER TO S | 01-02 DO YOU USE OR REFER TO S | 01-03 DO YOU USE OR REFER TO L | | Q1113 Q1-04 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE | REGISTERS 01114 01-DS DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF | SHIFT REGISTERS | THE OF THE OWNER THE PARTY OF THE PARTY PROPERTY PROPERTY OF THE PARTY |

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| DY-TSK | | | SPC 104 | SPC 105 | SPC 106 | |
|--|-----|-----|------------|------------|------------|--|
| YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR JOB | 0 | 0 | 0 | 0 | 0 | PHANTASTRONS |
| CIRCUITS | 0 | 0 | 0 | 0 | 0 | |
| R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER | 0 | 0 | - | 0 | 0 | SCHMITT TRIGGERS |
| RII43 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS | 0 | 0 | - | 0 | 0 | |
| RESENT JOB DO YOU FABRICATE MULTICONDUCTOR | 2 | - | + | - | - | |
| CABLES R3-02 GO YOU FABRICATE COAXIAL CABLES | 2 | ~ | - | 8 | - | CABLE FABRICATION |
| SII46 SI-DI IN YOUR PRESENT JOB DO YOU PEPFORM ANY TASKS ON | 1 | 1 | 7 | 80 | 9 | |
| VISUAL READOUT SYSTEMS S1-OZ DO VOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE 1164T DECODER SYSTEMS | - | - | - | - | 0 | INPUT/OUTPUT DEVICES |
| SI-03 DO YOU ANALYZE MIXIE LIGHT DECODER SYSTEMS USING BOODEAN ALGEBRA | 0 | 0 | 0 | 0 | 0 | |
| YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB | 0 | 0 | 0 | 0 | 0 | PHOTO SENSITIVE DEVICES |
| | 0 | 0 0 | | 6 | 00 | |
| YOU MEASURE EXCITATION FREUDENCIES YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS | 0 0 | 0 0 | | | 0 | |
| | c | 0 | 0 | 0 | 0 | CANCIDOMOGIC MESSAGE |
| 3-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS | 0 | 0 | - | 0 | - | (CHOPPER CIRCUITS) |
| YOU USE SERVOS IN CONJUNCTION WITH CHOPPER | ú | ь | 0 | 0 | 0 | |
| OPERATION YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER | 0 | 0 | - | 0 | 0 | |
| OPERATION YOU USE ERROP SIGNAL DEVICES IN CONJUNCTION WITH | 0 | 0 | 0 | 0 | 0 | |
| CIRCUIT OPERATION YOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH | D | 0 | 6 | D | b | the second secon |
| CHOPPER CIRCUIT OPERATION | | | | | | |
| INFRARED SYSTEMS | , | , | , | 1 | - | |
| ECT INFRARED SY | - | 2 | 0 | 2 | 0 | |
| - | 0 | - | 0 | - | 0 | |
| ADJUST OF CALIBRATE | 6 | 0 | 0 | 0 | 0 | TNEDADED |
| STEMS | c - | | 0 0 | | 0 6 | INTRAKED |
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| YOU TROUBLESHOOT HAJOR ASSEMBLIES OF INFRARED | 0 | - | 0 | - | 0 | The second section is a second |
| TI-08 DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM | -0 | - | 0 | + | 0 | |
| TI-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF | - | - | 0 | - | 0 | |
| INFRARED SYSTEMS 11-10 DO YOU REMOVE OR REPLACE INFRARED SYSTEM | 0 | 0 | 6 | - | 0 | |
| | | | | | | |

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| DY-TSK | 101 | 102 1 | 104 105 | 901 9 | |
|---|----------|-------|---------|-------|--|
| YOU USE OR REFER TO | 0 | 0 | | | |
| YOU USE OR REFER | 0 | 0 | 0 | 0 0 | |
| YOU USE OR REFER TO | 0 | 0 | | | |
| REFER TO | 0 | 0 | | | |
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| YOU USE OR REFER | 0 | 0 | | | |
| YOU USE OR REFER TO | 0 | 0 | | | |
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| YOU PERFORM TASKS ON | 0 | 0 | | | |
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| TOTAL | | | | | |
| TOO PERTONS ON STHERTCAL MIXTORS | | | | | |
| 11-21 DG TOU PERFORM TASKS ON PLANE MIKKOKS | , | - | | | |
| DES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH | - | - | 0 | - | |
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| 12-02 DO YOU INSPECT LASER SYSTEMS | - | 0 | 0 | 0 0 | |
| YOU CLEAN LASER SYSTEMS | 0 | 0 | | | |
| 12-04 DO YOU OPERATE LASER SYSTEMS | 0 | - | | | |
| VOIL OPERATE LACED SYSTEMS | - | | | - | |
| 12-06 DO YOU TROUBLESHOOT MIRE CONNECTIONS OF | 0 | 0 | 0 | 0 | the state of the s |
| | | | | | |
| 72-57 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER | 0 | 0 | 0 | 0 0 | |
| SYSTEMS | | | | | LASERS |
| T2-08 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF LASER | 0 | 0 | 0 | 0 0 | |
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| 12-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF LASER | - | 0 | 0 | 0 | |
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| 12-25 CO YOU WORK WITH HALF SILFERED (92% MIRRORS) 12-26 DO YOU WORK WITH HELICAL FLASHTUBES 12-26 DO YOU WORK WITH HELICH-KENON 12-26 DO YOU WORK WITH HELICH-KENON 12-31 DO YOU WORK WITH ARGON 12-32 DO YOU WORK WITH ARGON 12-33 DO YOU WORK WITH ARGON 12-34 DO YOU WORK WITH ARGON 12-35 DO YOU WORK WITH ARGON 12-35 DO YOU WORK WITH ARGON 12-36 DO YOU WORK WITH ARGON 12-37 DO YOU WORK WITH ARGON 13-37 DO YOU WORK WITH ARGON 13-37 DO YOU WORK WITH ARGON 13-37 DO YOU WORK WITH ARGON 13-30 DO YOU CLEAN DVST OR MHST 13-04 DO YOU CLEAN DVST OR MHST 13-05 DO YOU CLEAN DVST OR MHST 13-05 DO YOU CLEAN DVST OR MHST 13-05 DO YOU CLEAN DVST OR MHST 13-06 DO YOU PERFORM TASKS ON STORAGE GINS 13-10 DO YOU PERFORM TASKS ON STORAGE GINS 13-11 DO YOU PERFORM TASKS ON STORAGE GINS 13-12 DO YOU PERFORM TASKS ON STORAGE GINS 13-13 DO YOU PERFORM TASKS ON STORAGE GINS 13-14 DO YOU PERFORM TASKS ON STORAGE GINS 13-15 DO YOU PERFORM TASKS ON STORAGE GINS 13-16 DO YOU PERFORM TASKS ON STORAGE GINS 13-17 DO YOU PERFORM TASKS ON STORAGE GINS 13-18 DO YOU PERFORM TASKS ON STORAGE GINS 13-19 DO YOU PERFORM TASKS ON STORAGE GINS 13-11 DO YOU PERFORM TASKS ON STORAGE GINS 13-12 DO YOU USE OR REFER TO PROGRAMS U1-05 DO YOU USE OR REFER TO DATA WORDS U1-05 DO YOU USE OR REFER TO ADDRESS YUBBRUILD ON YOU USE OR REFER TO | 12-25 CC YOU WORK WITH HALF SILVEPEN (92% REFLECTIVE) HIRRORS 17-26 DO YOU WORK WITH HELICAL FLASHTUBES 17-27 DO YOU WORK WITH HELIUM-NEON 17-29 DO YOU WORK WITH HELIUM-NEON 17-30 DO YOU WORK WITH HELIUM-NEON 17-30 DO YOU WORK WITH RESON 17-31 DO YOU WORK WITH RESON 17-32 DO YOU WORK WITH RESON 17-33 DO YOU WORK WITH RESON 17-34 DO YOU WORK WITH RESON 17-35 DO YOU WORK WITH RESON 17-35 DO YOU WORK WITH RESON 17-36 DO YOU WORK WITH RESON 17-37 DO YOU WORK WITH RESON 17-37 DO YOU WORK WITH GALLUM ARSENIDE 17-36 DO YOU WORK WITH GALLUM ARSENIDE 17-37 DO YOU WORK WITH GALLUM ARSENIDE 17-36 DO YOU OFFERTE SYSTEMS THAT CON MAST 17-30 DO YOU OFFERTE SYSTEMS THAT CON MAST 17-30 DO YOU OFFERTE SYSTEMS THAT CON MAST 17-30 DO YOU PEFFORM TASKS THAT MAKE IT NECESSARY TO NAME 17-30 DO YOU PEFFORM TASKS THAT MAKE IT NECESSARY TO NAME 17-30 DO YOU PEFFORM TASKS THAT MAKE IT NECESSARY TO NAME 17-30 DO YOU PEFFORM TASKS ON WATTE GUNS 17-31 DO YOU PEFFORM TASKS ON STORAGE GRIDS | | | |
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INFORMATION

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READ INSTRUCTIONS REPORT DOCUMENTATION PAGE BEFORE COMPLETING FORM 1. REPORT NUMBER 2. GOVT ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER AD A048 68 KEN AFPT 90-462-222 4. TITLE (and Subtitle) 5. TYPE OF REPORT & PERIOD COVERED Final Weapons Maintenance Specialist Career Ladder July 77 - September 77 AFSC 46250 6. PERFORMING ORG. REPORT NUMBER 7. AUTHOR(+) 8. CONTRACT OR GRANT NUMBER(s) Thomas J. O'Connor Frederick B. Bowers, Jr. 9. PERFORMING ORGANIZATION NAME AND ADDRESS 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Occupational Survey Branch NIA USAF Occupational Measurement Center Lackland AFB TX 78236 11. CONTROLLING OFFICE NAME AND ADDRESS 12. REPORT DATE 28 October 1977 SAME as ITEM 9 13. NUMBER OF PAGES 14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office) 15. SECURITY CLASS. (of this report) UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) 18. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Electronic principles Electronics Basic electronics Air Force Training **Avionics** Teaching methods Electronic Equipment Training Electronic Technicians 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report summarizes the results of the administration of the Electronic

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Weapons Maintenance Specialty (AFSC 46250). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career ladder.

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This specialty has the following functions:

Loads nuclear and nonnuclear air munitions and explosive and propellant devices on aircraft; and maintains, installs, modifies and repairs aircraft bomb, rocket, and missile release, launch, suspension and monitor systems; guns and gun mounts; and related air munitions handling, loading, and test equipment.